



# Scope

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## Palomar Amateur Radio Club Inc.

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**POSTMASTER:** Send address changes to SCOPE, P.O.Box 73, Vista CA 92085-0073.  
See pg. 12: Contents, Club Calendar, Repeater Use, PARC Frequencies, and PARC Nets.

Send \$12 Dues To:  
PARC, Box 73  
Vista CA 92085-0073

## Next Club Meeting

Charlie Ristorcelli NN3V@arri.net  
(Meetings are held the 1st Wednesday of each month at the Carlsbad Safety Center in Carlsbad at 7:30 p.m. although most come at 7:00. See map on page 12 for directions -Ed)

### December Program.-

PARC Will hold it's regular monthly meeting on **Wednesday, December 6th., starting at 7:30 PM.**

Many are the rumors, and some are the facts, surrounding the enactment and enforcement of antenna ordinances in Southern California.

We've all heard strange tales of disparate enforcement of regulations, some evidence that municipalities overlook the public services provided by hams when they set stringent antenna regulations, while at the same time we run across hams who live in cities and municipalities that actively support ham operations, and antenna structures in general.

Right here in San Diego county, several PARC members are actively engaged in a municipality's review of antenna ordinances, with the prospect of a "ham friendly" ordinance being enacted after years of neglect.

What are common trends in all these situations?. How does PRB-1 factor into the discussion of antenna and tower erection permits?. How do CC&R regulations fit into the picture?

Come join us for the December

Club meeting, and listen to KM1V (John Goodrich), a San Diego attorney, affiliated with the ARRL, as he discusses topics associated with all the above, and gives us some insight into the evolving regulations under which we find ourselves being judged in the erection of our most important hamshack element: the skyhook.

And, don't forget that this is our December meeting. Come on out and join us all in observing a few moments of Holiday Merriment as we wish one another a Happy Holiday, and a New Year full of health, wealth, and happiness.

**MERRY CHRISTMAS & HAPPY 2001**  
73 de NN3V

## Election

Since there is only one person nominated for each position, the election will only be a formality and the slate will be "declared" elected with no recounting of votes allowed!

### December 6th Election

#### The Slate -

|           |                     |        |
|-----------|---------------------|--------|
| President | Allen Maslowski     | N2DCA  |
| Vice Pres | Charlie Ristorcelli | NN3V   |
| Secretary | David Patterson     | WB6DAV |
| Treasurer | Jo Ashley           | KB6NMK |
| Board# 1  | Mark Raptis         | KF6WTN |
| Board # 2 | Helmut Stroeml      | OE8SOQ |

These are the members nominated at the November club meeting.

**Merry Christmas  
and a very  
Happy New Year  
to all!  
Flash  
PARC 2nd FD 5A!**

## Coming Events.

|                |                |
|----------------|----------------|
| Dec. 6th, Wed  | Election, club |
| Dec. 13th, Wed | Board Meeting  |
| Dec. 20th, Wed | ARES EC .130   |
| Jan. 1st, Mon  | Happy New Year |

## Rebuttal (Nov. Participation)

The only thing I agree with in the previous November Scope article (Club Participation pg5) is "You get out of it what you put into it."

If the amateur community is interested in recruiting new and younger members, it had better become friendly. Using your train of thought of participating in club functions and attending club meetings will ensure friendly members, why is it that very few members as compared to the total club roster show up for meetings. I feel your train of thought should be the other way around.

<http://members.home.net/parc/>

Being friendly on the air may bring in more club (members) participating.

Don't put the onus on the new member, put it on the old timer. He's the guy set in his ways. Amateur's on HF don't need folding parties and club meetings to talk to a friendly voice.

Sincerely, **WB6FMK**, Paul Liesberg, Lakeside.

*(your editor welcomes any additional comments by club members on this or any other subject. He can take articles via e-mail or via snail-mail. Several articles in this month's Scope address the similar areas raised in this and the original article -Ed)*

## Last meeting (not quite)

The November meeting was another great talk by **W6YOO**Harry who this time talked on **IOTA** which is the **Island On The Air** DX program. A grand time was had by all.

"Goodie" donations came from **N6QQF**Norm and **W6SST**Jim. You receive an extra activity point for your generosity. We missed **K06DV**Sue last month ...sorry about that!

**KD6TUJ**Dennis & took care of the coffee and goodie table.

Attendance was 51 members and 3 guests.

## K6DBJ (more)

Hi Stan, All through the 1970s and early 80s Dirty Blue Jeans was on our 5 nights per week TACO net. We coordinated all manner of traffic, mostly Flying Sam fly-to clinic problems, but with a variety of emergencies. For medical emergencies I made major use of my phone patch, calling the Sam doctors as appropriate -- primarily the founding medico of the Sams, Dr. Dale E. Hoyt.

He was never hesitant to use his best medical judgement in diagnosing at a distance -- something many MDs are hesitant to do.

One of his "commands" was to a small ship off the coast of southern Baja during the night time: after hearing the symptoms he knew it must be a ruptured appendix, and said emphatically "get her to shore now (repeat now)!"

I miss Nick Callas/K6DBJ and the

fantastically good net we all so much enjoyed. 73, Nash

## dit-dit-dit-dit-dit-dit-dit

The article by **N6UW**Ellen on **K6DBJ** in the November issue was incorrectly titled by your editor as **N6DBJ** although the article had the correct call-sign of **K6DBJ -Ed**.

## Board Mtg. (Minutes)

David Patterson **WB6DAV@Juno.com**

### Next meeting at **W9FQN QTH**

*(Club members are invited to Board meetings at Board members QTH's at 7pm on the Wednesday following the club meeting as announced herein. You receive one participation point for attending. A copy of the complete minutes are at the general meeting.)*

### Board Mtg. November 8th, 2000

Called to order by president **NN3V** at 6:59pm **W9FQN** acting secretary.

**Present:** **NN3V**, **KB6NMK**, **AB6QT**, **KF6BFI**, **W9FQN**, **W6GNI**

**Absent:** **N2DCA**, **W6SAX**, **WB6DAV**

**Guests:** **OE8SOQ** & **KF6WTN**

Minutes treasurer's report approved.

**Approved:** **KD6QK** expense for Steam Engine Show \$32; \$30 for recording digital meter; treasurer's computer \$63.52; 220 agreement;

**Discussed:** search engines; inventory; membership 540; insurance; cost of repeater operation; **W6GNI** and **W9FQN** to contact **KE6WOE** on web page; Poway antenna problems, etc.

Next Board meeting at **NN3V**'s QTH. Adjourned at 8:30 pm.

## San Jacinto Hike

Glenn Paden **KE6ZLY@Juno.com**

*(In this day of fitness awareness and its relation to heart disease, it is good to see these hams out walking, enjoying the magnificent outdoors that we have in Southern California, and enjoying their hobby of amateur radio while doing so. Glenn is one of our avid hikers who knows much of the local San Diego history and has endless stories to tell as we hike along ...or canoe along -Ed)*

Hello everyone: First of all I wish to thank Bob, **W6VR** and Bernie, **N6FN**, for the great job they did in making our hikes last Sunday a great success.

I would also wish to thank every one who took part in the planning and the doing of the hikes. Everything turned out

great, it is fun to have two or so hikes going the same day when we can DX back and forth.

This time it was truly DX-ING AS CONDITIONS ON THE TWO METERS was much better than I have ever seen it from DESERT HOT SPRINGS and conditions were very good for getting into the PARC REPEATER from the balcony of the mountain station of the tram-way.

I made several contacts from the balcony on the PARC repeater. One of the contacts was with Bob, **W6VR** who was with the group hiking in the BLUE SKY PRESERVE, it was great to hear how their hike was going and of the rescue of the dog in LAKE ROMONA. However like the weather, the radio conditions were very moody. At DESERT HOT SPRINGS, where Don and I camped, we had to keep moving my beam to get the best signal in order to get into the repeater. Some times we would point it at Palomar and some times we would have to bounce off SAN Geronio.

The wind kept moving the beam until finally we put a nylon string on the end of the beam to hold it in the right direction. On the hike I was using my backpack mobile with a half wave LARSON and I could hear the people on the PARC repeater almost all the time but with only two watts I could not get back to them from the area where I was hiking. I WAS TOO MUCH "OVER THE HILL". Well enough about the radio communication on the hike, lets get down to the Hiking.

We had five people on our hike, three HAMS and two non-HAMS. The HAMS were, Don, **KB6QEW** Ted, **KF6BFI** and myself Glenn, **KE6ZLY**. The non-HAMS... Dons son Garret and Ted's friend Menchie.

Don and Garret and I only hiked to ROUND VALLEY about two miles from the mountain station of the tram. The temperature was some where between 28 and 30 degrees. It was overcast with an occasional snow flurry. There was a dusting of snow at LONG VALLEY by THE TRAM

# P.A.R.C. Inc (2000 Board)

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Board Mtg. 7:00 pm Wednesday of week following the Club meeting as announced.

## Treasurer \$\$, \$\$\$

Jo Ashley  
KB6NMK @amsat.org

See me at club mtgs for "hard copies" of financial statement(s).

Past months "projects/available": ↓

| Location/due       | 8.31.00   | 9.30.00   |
|--------------------|-----------|-----------|
| CD4#4-08.19.98     | 2,327.27  | 2,339.29  |
| CD5#2-10.09.98     | 2,485.89  | 2,497.68  |
| CD1#3-05.24.98     | 2,439.89  | 2,452.19  |
| CD4#1-08.13.99     | 2,965.10  | 2,979.17  |
| Checking           | 4,983.89  | 4,776.69  |
| Post Office        | 100.18    | 108.18    |
| Cash+CD's          | 15,302.22 | 15,145.20 |
| Pre-Pd dues/ish    | 5,921.00  | 5,754.00  |
| projects/available | 9,381.22  | 9,391.28  |

|          |          |          |          |
|----------|----------|----------|----------|
| 02.31.96 | \$7,884  | 10.31.99 | \$10,191 |
| 02.31.97 | \$4,880  | 11.30.99 | \$9,638  |
| 02.28.98 | \$8,414  | 1.31.00  | \$10,212 |
| 2.28.99  | \$10,118 | 6.31.00  | \$9,161  |
| 4.30.99  | \$8,546  | 7.31.00  | \$8,812  |

Routine: Scope printing ~\$250/mo; Scope postage ~\$65/mo; electricity ~250/mo; phone ~\$50/mo = ~\$615/mo. (Insurance each Nov. ~\$1,100/year)

Under consideration: 6m repeater spare ~\$200; 449.42 repeater spare ~\$200; spare antennas ~\$700; etc = ~\$1,100.

Approved expenses not spent: \$100 tent trailer; = ~\$100

Last month's Scope Helpers:

Thanks to Art and Anita for the folding space and the refreshments. Really great cookies. (the greatest?)

**KB6YHZ** Art & **KB6YHY** Anita  
**W6GNI** Al & **K6ML** Jim  
**N6UZH** Terri & **MY2KID**  
**W9FQN** Stan & **N6OYG** Victor  
**KB6NMK** Jo

STATION and about one fourth inch at ROUND VALLEY.

Ted and Menchie hiked up to Wellmans Junction, a hard mile above round valley over looking Palomar Mountain. This is a good place for RADIO COMMUNICATIONS, but it was so windy and cold they only made one contact and headed back down full steam with the pedal to the metal.

Don, Garret and I only stayed in ROUND VALLEY for about five min. and then headed back to the Tram at about half throttle. It was so beautiful we did not want to go very fast, and there were a lot of fun people to talk to along the way. Don, Garret and I waited for Ted and Menchie at the TRAM RESTAURANT and then we all had a great dinner, fit for a KING.

After getting back to Desert Hot Springs I headed, full throttle, for the Desert Hot Springs Hotel Spa for a delightful soak in the hot, BUBBLY POOLS. What a great way to end a great day of hiking.

We were very saddened by the news that Charlie. NN3V, could not accompany us on the hike, as he had planned, but instead ended up in the hospital for surgery. Our thoughts and prayers are with you, Charlie, for a speedy recovery. 73'S Your OLE HIKING BUDDY, Glenn, KE6ZLY

(Anyone interested in hiking or canoeing with these hams, novice or expert hikers. contact Glenn via e-mail or mornings on the 146.730 repeater or after he runs his morning autopatch on 147.130. If you would like to get on the hiker's reflector on a trial basis, contact W9FQN with a request and he will put you on Tom's reflector list. If you don't find the information useful, there are directions on how to REMOVE -Ed)

## Letter to PARC

During the 11/9 EMS drill, ARES used the 146.700 packet repeater to communicate from the ARES EOC (K6ELK) in El Cajon to WA6ODQ in Ramona. The traffic passed consisted of hospital status reports for

the drill, which were then sent to Sacramento via HF.

The repeater (packet) worked flawlessly, and provided ARES with a solid link between points that were inaccessible via simplex.

We wish to thank the Palomar Amateur Radio Club for a job well done!  
-73 de Dave -kc6yso@amsat.org  
-ARES SDG SEC

## President's Message

Allen Maslowski N2DCA@amsat.org

December marks the end of the calendar year with festive events. The end of the year for the Palomar Amateur Radio Club marks the end of the present board and the election of the new board. At the end of the December meeting the newly elected board members becomes official. This team will successfully guide PARC through 2001. I want to share with you an experience of a friend regarding teamwork. I believe that this short story is the perfect definition of teamwork and it will be the model for the 2001 PARC Board of Directors.

A few years ago, at the Seattle Special Olympics, nine contestants, all physically or mentally disabled, assembled at the starting line for the 100-yard dash. At the gun, they all started out, not exactly in a dash, but with a relish to run the race to the finish and win. All, that is, except one little boy who stumbled on the asphalt, tumbled over a couple of times, and began to cry. The other eight heard the boy cry. They slowed down and looked back. Then they all turned around and went back..... every one of them.

One girl with Down's Syndrome bent down and kissed him and said, "This will make it better." Then all nine linked arms and walked together to the finish line. Everyone in the stadium stood, and the cheering went on for several minutes. People who were there are still telling the story. Why?

Because deep down we know this one thing: What matters in this life is more than winning for ourselves. What matters in this life is helping others win,

even if it means slowing down and changing our course.

"A candle loses nothing by lighting another."

The 2001 Board of Directors will be joining hands, working together and with the community, guiding PARC to new and exciting things and events for the coming year.

I thank all the members, visitors and guests of PARC for their support in 2000, and wish everyone a Healthy and Happy Holiday Season and Happy New Year!

Sincerely, Allen N2DCA.

## SK SK SK SK

We are very sorry to hear that PARC President Allen Maslowski, N2DCA's mother passed away November 7th in New Jersey. Allen flew to be with her several days before her death.

## Flower Girl Rescued

A group of hams hiking near California's Lake Ramona have saved the life of one of man's best friends.

On Sunday, October 22nd, several members of San Diego's Palomar Amateur Radio Club were approaching the lake when they noticed an old and very tired German Shepherd half trying to stand on the slick underwater muck while trying to tread water. As learned later, the dog's name was Flower Girl and by the time the group of hiking hams found her she was too tired to even put a paw on shore. And this is where amateur radio stepped in.

The hikers were split in two groups. After describing the situation to those on the west bank, two members of the east group waded into the water to help get Flower Girl out. A third person pulled from above. After what seemed an eternity, Flower was resting about 20 feet up the bank, receiving food and plenty of attention. But the problems had just begun.

Due to her advanced age Flower Girl suffers from hip dysplasia. Because of this, she could not walk on her hind legs without being in pain. Even if she could

walk it would not be an easy trek. It would take a skilled hiker 20 minutes to reach the north or south ends of the lake even without the added weight of a 100 pound dog.

But as luck would have it, the west bank hikers found Flower's owners and relayed the news back by ham radio. Flower's owners hiked to the scene and determined that the elderly dog would do best by swimming to a private access road where they could pick her up by truck. Rested, Flower got back in the water and followed her family, including their two other dogs, as they walked along the bank. The hams were released with shouts of thanks from Flower Girl's owners. Had the Palomar radio club hams not found her, there is a good chance that Flower Girl would not have survived. W6VR via Bill P./WA6ITF/Newsline

## KF6YUV

Nash Williams

W6HCD@amsat.org

Jose Lopez, **KF6YUV**, after a long period of hard study, finally achieved his ardent goal to pass the Extra Class test.

He did so in Mid October 2000. He is very proud of his accomplishment ...

He was helped along the way by attending some of the classes conducted by Larry Ruegseger, **WA6UTQ**, at the Vista Blind Center.

## Club Membership

Al Donlevy W6GNI aldonlevy@juno.com

Don't forget to **CHECK YOUR LABEL** each month!

Notice your club expiration date (MM/YY) and sometimes other information.

As you know, the SCOPE is printed and mailed a full week before the monthly meeting, and we have to know how many to print, and have the mailing labels printed. Timely renewals insure that no one is overlooked in the mailing.

Last month, October, we enlisted more new members than those that didn't renew their memberships. This is good news.

A great way to insure not missing anything is to renew for more than one year at a time. Let's face it, a dollar a month is a very modest amount for membership. We now have two members that have renewed for 10 years in advance, **KF6WTN** and **N6DDF**. Thank you, Thank you. Al Donlevy (Membership)

## Let there be Light!

Shintani, Peter.Shintani@am.sony.com

At one of the last meetings, **WB6IQS** John mentioned RF lamps. The GE lamp he showed was an electronic ballast type of lamp, that has switching noise but is mostly conducted noise and not radiated. I have a conducted emissions sweep of that bulb.

However, there is a commercially available RF lamp by GE called the **Genura**. I have a conducted an RF sweep of the lamp. It has the same name, "Electronic Compact Fluorescent Lamp." The point to note is that on the box, it has a warning:

*This product may cause interference to radio equipment operating in the frequency range of 2.2~2.8 MHz. Avoid placing this product near these devices. To reduce the possibility of radio interference to maritime safety communications, this device should not be installed:*

- 1) on board cargo vessels of more than 300 tons
- 2) on board vessels carrying more than 12 passengers for hire
- 3) at any medium frequency public coast station.

Further, installation is not recommended on board vessels equipped with medium frequency, single sideband marine radio radios. If interference occurs, move this product away from the device or plug either into a different outlet. Such interference complaints should be reported to:

*Technical Leader, Regulatory and Industry Standards at General Electric Company, 1975 Noble Road, Cleveland, Ohio, 44112 or call toll free (800) 435-4448 from 8:00 am ~6:00pm EST*

I brought my ICOM R-1 radio within 2 meters of the lamp, and it wiped out the 2~3Mhz band, and also harmonics.

However, the other problem, with this lamp is that wireless headphones that use infra-red can be jammed by this lamp, as the sub carriers used by IR headphones is standardized at 2.2 and 2.8 MHz!

I hope this is of interest to someone. I have one sample of the lamp. It is a 23 watt flood, standard screw base.

Very bright, supposedly equivalent to a 65watt R-30 bulb. Philips supposedly has a similar lamp available but I do not have any info on it.

*(These lights certainly are "energy" saving. You will have to do your hamming during the day or turn out your lights at night! -Ed)*

## Field Day Results

Charlie Ristorcelli

NN3V@arrl.net

Hi All: Thought I would pass on the official results of FD 2000, published in this month's QST (December issue).

W6NWG (PARC) achieved 13,506 points with 4,448 QSOs. That earned us 2nd. place in the 5A category nationwide. We were 1920 points short of our rival, K4BFT (Huntsville ARC). What is also impressive is that we were #10 of the top 10 FD participants nationwide. To put that in perspective, #1 in the country was W3AO which operated as 30A (that is 30 - yes THIRTY - transmitters on the air) with 50 operators for the weekend.

Once again I must express my ap-

preciation for all the fine work and support of the team that worked FD. We did NOT set out to just "rack up points". We had a good time, had two or more stations that were operated by "newcomers" to the hobby, and they all indicated the fun they had made the weekend worth it, and were looking forward to next year.

Start marking your calendars. Remember FD is the LAST FULL WEEKEND in June. It is a GREAT time to go out and work the bands (especially if you are restricted in the equipment and installation you can operate at home), and is a great way to "get your hands dirty" in assembling gear, antennas, and just enjoying the outdoor fun of Ham Radio.

We will start working up to FD soon. The excellent work accomplished by the many volunteers who "worked FD" last year means we have less "grunt work" to do this coming year, and can spend some time on the finer things needed to improve our competitive position.

SEE YOU AT FD 2001

## Another Ham?

Hi, I live in Vista and found you on the ARRL web site.

This weekend my son and I spend a chilly night cooped up in a tent in a blizzard in the mountains above Palm

Springs. I spent some time listening to several interesting conversations on my little Yaesu VX-1R including that of a fellow who was chatting with friends from his bivouac at the peak of 10,800 Mt. San Jacinto.

These conversations were in the 145 to 147Mhz frequency range. I thought that it would be nice to join in, to find some company there in my little tent; maybe ever use the repeater at the top of the Palm Springs Tram to call my fiancée to tell her that we were okay (if that was permissible, legal, within rules of etiquette, etc.).

The place to begin, of course, is to get a license and get educated. How can I start?

Best regards, Mike Elliott, Alta Vista Audio

## Field Day 2000(2nd!)

The December QST magazine listed PARC as a 2nd place winner in the emergency Field Day exercise this past June in the 5A classification.

Huntsville ARC, K4BFT,

**5,054 QSO 15,426pts 1st**

Palomar ARC, W6NWG

**4,448 QSO 13,506pts 2nd**

Here are several of the reactions to the announcement as seen on e-mail -

YA AIN'T SEEN NOTHING YET.  
WATCH US NEXT YEAR 73 DE

# HAM

# RADIO

H  
R  
O

# OUTLET

Tom KM6K  
Ron N6OMW  
Jose XE2SJB  
Bob KA6EKT

**KENWOOD**  
**rf CONCEPTS**  
**DIAMOND**  
**US TOWERS**  
**KANTRONICS**  
**YAESU**  
**MFJ, ICOM**  
**BENCHER, Inc.**  
**HUSTLER**  
**COMET**  
**AMERITRON**

**Astron,**  
**AEA,**  
**OUTBACKER**  
**Larsen Antennas**  
**TEN-TEC**  
**hy-gain, Tri-EX,**  
**cushcraft**  
**and**  
**others too**  
**numerous to**  
**mention!**

Drop in to see our display of working equipment.  
Find out about Pkt location determining equipment (APRS).  
Check our complete line of magazines.  
ARRL books, license manuals, and Bulletin Board with all sorts of goodies listed.

Open: 10a.m. - 5:30p.m.

Monday thru Saturday

858 560-4900 or toll free 1-800-854-6046

5375 Kearny Villa Rd, S. D.

Ask about our great prices

**Directions:** On 163, take **Clairemont Mesa Blvd.** off ramp to East. Stay in right-hand lane. Turn right at stop light. As you are turning right you can see our beams in the shopping center. Travel 100 yds. on Kearny Villa Rd. and U-turn back to shopping area and HRO sign. Be sure to see our equipment in action on real antennas.

NN3V.

Congratulations! 500 QSOs is still a bunch separating PARC from K4BFT but not insurmountable. Good planning like PARC had this year with NN3V at the control and his able PARC crew plus more support from members can put PARC back in #1 spot ! 73, Dennis Vernacchia **N6KI**

## PARC Programs (selection)

Charlie Ristorelli

NN3V@arrl.net

I am grateful to the many PARC members who frequently comment on the high quality of the PARC programs. We've enjoyed excellent Club attendance over the past year, and many members comment that the attendance is because the programs are interesting and varied.

Well, I must confess that the past twelve months have been a success in programs because one or two people have consistently suggested topics. YES, for those of you who may actually read Scope, and notice this article, I must confess that I alone am NOT the reason for good programs. The majority of the good topics enjoyed have been suggested by club members.

But guess what?.

I am running out of ideas and suggestions.

Now, if you are still reading this article I challenge you to do TWO things.

First, prove me wrong in my contention that no one reads the Scope. I challenge you to come up to me at a meeting, or send me an e-mail at NN3V@ARRL.net, and tell me "Hey, Charlie, I do read the Scope, and I saw your article. I am proof that people do read the Scope!".

Second, I challenge you to suggest a topic for Club Program.

The topics can be technical, ham radio operation oriented, or topics you believe will be of interest to the Club membership.

There are several areas I always wonder about. Many of you work in the technology field (radio, medicine, data processing, radio communications). How many of you know of someone in your organization who would be willing to

come to a PARC meeting and present us with something about the technologies you work with?. What about how Computer Aided Topography (CAT) scans work?. Or how about Magnetic Resonance Imaging (MRI)?. Who among you at Qualcomm (including the millionaire retirees we have from Qualcomm) know someone at who would like to come and tell us some of the fascinating things coming down the road in the wireless world?. Those of you who happen to be associated with State Law Enforcement. How about finding someone who would like to talk with us about the manner in which law enforcement agencies are "wiring together"?

The opportunities are endless.

But I'll bet that my challenges go unanswered. Stay tuned.....I'll bet you that in the next month or so I'll be able to prove that "No one reads the Scope", and no one has any ideas about innovative programs.

(Oh, by the way. In event of the latter, don't be too surprised if we start to re-run programs.....HI HI HI).

## Language(s) Net

The club in the past has had a Spanish language net but it fell by the wayside when participation dropped.

The ability to speak several languages is many times advantageous. Most often on our repeaters we hear Spanish and then probably some form of a German dialect.

PARC would consider net time for any group wishing to practice their language using the net format.

## 1931 FCC Callbook

PARC has an old FCC Callbook listing amateurs as of **June 30, 1931**.

If anyone would like to see if their callsign was listed to anyone in 1931, send an e-mail to -

**W9FQN@Juno.com**

and we will send you information on whether the call was valid then and to whom it was issued.

In 1931 it appears that there were plenty of callsigns available so if your

call is in this book, the person holding your call is probably the first one to hold that particular callsign.

All calls at that time were 1x2 or 1x3 and the first letter was a K or a W. So you 2x1, 2x2 and 2x3's can forget about having your call looked up. It is not there.

Your editor's callsign, **W9FQN**, is only a second issue of the call and was held for the first time by a ham in Louisville, Ky.

Bob Gonset's call, **W6VR** was issued to a ham in San Francisco before his dad picked it up so it appears as though Bob is the 3rd one to hold that callsign.

## Lost & Found

We still have a **microwave** left over from Field Day. Anyone know where it belongs? See **W9FQN**Stan to claim.

The following items were found at the club picnic and a recent club meeting: **2 spoons & navy blue jacket** left on a chair. See **KB6NMK**Jo to claim.

## KF6BGI => K6ISS

Fred, KF6BGI, is after having changed his callsign, now K6ISS, introduced his new callsign on the 8:30 A.M. Sunday morning ARES net for November 19th. You can remember his callsign by remembering 6 kiss(es). Bet the new call sounds great on CW!

## N.Dist. ARES Staff

The Northern District EC Staff will meet on the 20th of December at 7 PM using 147.130. 73 Norm **KF6GOF**

## PO Box 73

PARC got its start in Escondido and since that time has "wandered" around North County: Escondido, Oceanside, Vista, Carlsbad ...etc.

Years ago our previous editor, Ralph Crossman **K6HAV**, was able to get Box 73 in the Vista PO and when he and his charming wife, Pat **N6INN**, left for Salt Lake City, he asked the club if we wanted his old box ...and of course, we jumped at the opportunity.

So the club's address is -  
**PARC, POB 73, Vista CA 92085-0073.**



## For Sail

(11.22)Estate Sale: **Kenwood** AT 250 Tuner \$150; **Eico** Electric Keyer #717 \$25; **Kenwood** TS 520 \$250; **B&W** Lo Pass Filter \$20; **Yeasu** FT 221R \$150; **Akai** Headphones \$10; **SSB-FM** Solid State Amp \$20; **Mc-50** Mic \$45; **Shure** 444 Mike \$40; **Shure** 404c Mic \$25; **Panasonic** VCR \$20; **NAD** Cassette/Tuner \$20; **Heathkit** GR 88 \$??: sstires@prodigy.net or Sonny at (760) 724-0049.

(11.10)**Kenwood** ant tuner (AT230); remote VFO 230, transceiver TS 530S & mic MC 35S, Mint cond \$600: **KF6HHE** Richard (760) 598-8289.

(11.10)**I-COM** 7351 w/pwr supply, MFJ deluxe tuner II, I-COM SM5 mike, MFJ electronic paddle \$700: **KF6HHE** Richard (760) 598-8289.

(11.03)Attention QRP'er's **Mizuho**(oem source for **AEA**) MX-6 6m 100mW out SSB \$100 and MX-28S 10m 1.5W SSB \$120 both include antennas: **Peter VE7CQA** (858)942-5502 **R.Bernardo**

### PALOMAR ENGINEERS

Box 462222, Escondido, CA 92046

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Ferrites slip over coax. Shrink tubing holds them in place. Works from 3.5-60 MHz (Use two kits for 160 m).



**Model BA-58** (for RG58, RG8X & similar cables up to 1/4" dia. \$7.50 + tax + \$6 S&H/order

**Model BA-8** (for RG-8, RG-213, 9913 and similar cables up to 1/2" diameter. \$15.00 + tax + \$6 S&H/order

#### TUNER-TUNER

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See catalog at [www.Palomar-Engineers.com](http://www.Palomar-Engineers.com)  
Please check our complete ads in **QST**, **73**, **CQ**, and **World Radio** magazines.

**Personal equipment ads** are free to members and could be "bumped" after 3 mo. Make up your ad like the ones below and send to Editor, **W9FQN**, 30311 Cir. R Ln, Vly. Ctr. CA 92082, (**W9FQN@Juno.com**) before the 20th of each month.

**Commercial Ads** in big boxes: \$2/col. inch/mo. We will "squash" your copy to the number of inches bought. **W9FQN@Juno.com**

(10.18)**ADI-AR146** 2m mobile w/glass mount ant \$100: **KF6VHA** 760-310-6642.

(9-19)**N6OLE** Sears **ROAD-TALKER40** SSB XCVR \$50; military throat mic + headphones BO; Precision "Steel Six" lab mtrs. \$5 ea; Proximator I vehicle det. \$2; **Olson** CB067 Swr Mtr. \$3; Keithly Auto R. Mtr. \$15; Motion Det. Solfan 5240 \$5; 25v.3A Reg. Pwr Sup \$20; CDR Decade Capacitor \$4; Sabetronics Freq. Cntr mod. **8110A** \$20; **Healthdyne** Lab digital thermometer mod. 2000 \$5; call **AB6QT** at 760-742-1573 after 5pm.

(9.6)"**MAXTOR**" 18 GB 3.5', high performance Hard Drive. Easy, 3-step installation still in the box, Half price @ \$65 **Mark Salzarulo**, O'side **WA6DOC**.

(9.1)2m packet station, **PK-12** controller, **Kenwood** 2m 7950 xcvr, cable assys & manuals, computer software & disks \$150; all units working & all reasonable offers considered: **Al N6GNB** **Ulrich525** @aol.com 760-741-1840 Esc.

(8.14)Pre-ban Opto-elec R-10 scanner; **Sangean** ATS-818 shortwave receiver: Both mint, with extra's: **KD6BFR**, **Bill** Call 760-480-6805.

(8.11)sell/trade **National** NCX-5 xcvr 10-80m match ext VFO/spkr/ACpwr/mobilepwr/mike/tubes/manual \$200?; **Hustler** mobile ant base 10/20/40m coils \$50?; **Vibroplex** Orig Deluxe keyer w/case \$100?; 2 antiques for bids **Magnavox** audio fq. amp type AC3/modC/#2236; used 3 type 33 push-twist tubes, external "A&B" batteries; **Heintz/Kaufman Ltd**, San Francisco, Radio receiver type 900

### Reaching Amateur Radio Operators for Christ

Reaching Amateur Radio Operators for Christ meets each Sunday at 7:00p.m. on 147.270. All HAM operators are welcome to drop in and share scripture or just listen. **KF6VHA**

(regenerative) # 113,3800-23000kc **USPat** 1,507,689-1,907,806; trade for 2m/440MHz gear/ICOM boom mike **Yeasu** NC-18 desk charger: **Larry W6LCT** Vista 760.724.9996 B4 5pm or 7-9pm daily.

(7.27)**Kenwood** TS520 HF transceiver 115 vac or 12 vdc w/spkr/manualmic \$295; **Kenwood** remote VFO520 w/man \$75; **Steve W2MRM** 858-451-5690.

(7.25)**Ten-Tec** Titan amp Mod 425 10-160m mint 20hrs orig box w/manuals \$2,500: **Kris W6KTE** 760-941-3555 Vista.

(7.19)**Zerex** printer 1340A w/manual \$15; **Heath** H89 computer w/2drives/pwr/man \$20; **Printmate** 350 do matrix printer \$5; **Mini-quad** HQ-1 ant w/rotator/man \$30; **Dan W2LUK** 858-592-9901 Poway.

(7.6)**Standard** C1208DA 50/10/3w 2m mobile mic w/display/controls \$120; **AEA** **PK-88** TNC packet \$20; **Cushcraft** 4el 2M "boomer" yagi 4' boom w/Archer TV rotor and control box \$35; **Mars** SWR meter HF \$5: **Russ K6KW** 760-436-6714 Carlsbad.

**WANTED:** (A few good men/women) ☐

(11.23)Wanted: **Kenwood** TS430s with PS-430 power supply: sstires@prodigy.net phone: Sonny (760)724-0049)

(10.2)Wanted: **Kenwood** TR-2500 alkaline battery case: **Dennis K7DCG** 858-748-9046 or **K7DCG@arri.net**.

(9.9)Wanted: **Clegg** FM-28 2m rig Manual & Schematic (to copy): **Dennis**, **N6KI**, 858 271-6079 or **n6ki@amsat.org**

(8.16) WANTED: owners manual for **IC-R70** Receiver: **Berand**, **WBØYCQ**

**Technician Wanted at Wavelynx in Vista**  
RF, analog and digital technician for repair of microwave radios.

Contact **Charles** at 760 598-9090 or email resume to **charles@adnc.com**

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[www.nicadlady.com](http://www.nicadlady.com) e-mail: [nicadlady@nicadlady.com](mailto:nicadlady@nicadlady.com)

(760) 722-5394 or WB0YCQ @ARRL.NET  
(8.10) Want pwr and audio output transformer (pairs) from only vacuum tube stereos, old speakers, stereo tuners/amps working or not from '50s-70s, will pickup & pay cash: John ac6ts@amsat.org or 760-747-9431.

(7.6)Wanted used SP-230 matching speaker/cabinet for TS830S: 760-722-5394 or wb0ycq@arrl.net Ocsd.

## Grab Bag at Mtgs.

At the next club meeting **W9FQN** Stan will have some more of the club's buckets of valuable junk at a table near the right wall (at least it is not the wrong wall:) small parts, radio books, magazines, HT belt holders, etc. Some items are priced 4/\$1 and other buckets 2/\$1.

## Editor

Your editor would like to see items of interest submitted to the Scope that would be suitable for inclusion in one of the upcoming newsletters.

The article or several paragraphs can be on any subject related to amateur radio. During the past year we have received more items from members than in years past since he has become editor and we hope that the coming year will see a doubling or more of submissions.

If you are interested in something, the chances are that another club member is interested in it also.

Some suggestions for articles are:

1. How you used amateur radio to help someone.
2. How you demonstrated amateur radio to a non ham.
3. How you used amateur radio in a hike.
4. How the autopatch helped you in a semi-emergency.
5. Hey, can't you think of something?

Your editor loves to receive things via e-mail since he doesn't need to do much, if any, typing but he will accept pony express mail. What he really does not like dealing with is information by land-line since too many errors creep into the copy.

Hey, take it easy on the OM.

## Garage Sale

John Keuvinia WB6IQS@Juno.com

I regularly go to garage sales and swap meets. I see a lot of junk but also have found a few treasures. I've noticed that there is a lot of emergency supplies that are available now that were purchased for the Y2K disaster that never happened.

Now that the public thinks that there will "never" be an earthquake, long duration power outage, severe storm, etc. people are selling the emergency preparedness gear that they should be keeping. Often at a very steep discount.

Examples, garage sales where 1.5KW Honda generator was offered for sale for \$150. In near new condition. You can also now find similar items in the local want adds.

This week at the Oceanside Drive in Swap Meet, I bought a new AC generator power transfer panel for \$10.00. They had others for sale at the same location. It was a 240/120 VAC input unit with two watt meter indicators. SPDT switches for transferring up to six 15 amp. loads.

Last October (1999) they were \$180 if you could find them. You have to have something like this to safely transfer loads from the AC mains to a generator when activating house interior wiring.

If you plug in a generator to the house wiring without cutting off the panel's circuit breakers you can do severe damage to the generator or to people repairing the lines.

I've not seen much in the way of long term food or water supplies but I'm sure that they are out there too. With a shelf life of 10 years or more for some of these products these could be a good investment.

## Join the ARRL

Contact Joe Ashley,  
KB6NMK, at club meetings

## Committee Chairmen

(appointed to serve Sept '99)

|                      |                          |                               |
|----------------------|--------------------------|-------------------------------|
| ARESinfo             | -Dennis S                | K7DCG@amsat.org               |
| Attendance           | -Stan R                  | W9FQN@Juno.com                |
| ATV -Bills           | KB6MCU                   | W6GIC@amsat.org               |
| Auction              | -TedW                    | KD6BFI@amsat.org              |
| Badges               | new -Al                  | W6GNI@amsat.org               |
|                      | old -John T              | W6OLA@amsat.org               |
| Batteries            | -David KD6EY             | DAT@Gerry.Palomar.caltech.edu |
| BBSMonitor           | -Bill B                  | N6FMK@amsat.org               |
| Billing:Ads/etc      | -Lyell K                 | K6GVM@arri.net                |
| By-laws              | -Paul KF6VIE             | pdecicco@pondlaw.com          |
| &                    | -Ron RWA9JCL             | r3mb@concentric.net           |
| Contest Info         | -Dennis                  | W6KJ@amsat.org                |
| ControlOps           | -filled                  | W6NWC@amsat.org               |
| D.Mar Fair-Barbara R | KA6FPS                   | Tennis42@Juno.com             |
| Emergency QTH's      | (Emergency Com. Centers) |                               |
|                      | HarryH                   | -W6YOO W6YOO@amsat.org        |
|                      | DennisV                  | -N6KI N6KI@amsat.org          |
| Equip Inv.           | -                        | (to be announced soon)        |
| Field Day            | -Charlie                 | NN3V@ARRL.net                 |
| FDTech               | -John K                  | WB6IQS@Juno.com               |
| Historian            | -Stan R                  | W9FQN@Juno.com                |
| Interference         | -Bills KB6MCU            | W6GIC@amsat.org               |
| Inventory            | -DennisBac               | DennisKD6TUJ@juno.com         |
| MtgGoodies           | -                        |                               |
| Membership           | -Al W6GNI                | aldonlevy@juno.com            |
| Nets                 | -Stan R                  | W9FQN@Juno.com                |
| Newsletter           | -Stan R                  | W9FQN@amsat.org               |
| PALBBSpkt            | -Bruno H                 | KF6QDP@amsat.org              |
| Patch Info           | -Stan R                  | W9FQN@Juno.com                |
| PatchETronics        | -Jerry H                 | WB6FMT@amsat.org              |
| Picnic               | -MarshP                  | W6SAX@amsat.org               |
| PowerAC/DC           | -Mike P                  | KD6VHI@amsat.org              |
| Programs             | -CharlieR                | NN3V@ARRL.net                 |
| Publicity            | -Fred S                  | KE6BGI@amsat.org              |
| QSL Cards            | -MerleR                  | KR6BT@Juno.com                |
| RACESinfo            | -Jo A                    | KB6NMK@amsat.org              |
| Red Flag             | -W6HCD                   | NashWilliams@Compuserve.com   |
| Rptr Site            | -Stan R                  | W9FQN@Juno.com                |
| Rptr Skeds           | -Stan R                  | W9FQN@Juno.com                |
| SANDARC              | -Sybil A                 | W6GIC@amsat.org               |
|                      | -Bills KB6MCU            | W6GIC@amsat.org               |
| SellerTable          | -John K                  | WB6IQS@Juno.com               |
| AsstSWDivDir         | -Walt                    | WA6ODQ@arri.net               |
| TechSite             | -Mike D                  | AB6QT@amsat.org               |
| TestingVE            | -Rusty M,                | DuncDancer@worldnet.att.net   |
| Training             | -                        | W6NWC@amsat.org               |
| TrusteeW6NWG         | -MikeD                   | AB6QT@amsat.org               |
| Web Site             | -Frank L                 | KE6WOE@amsat.org              |

## (Net Managers) (see pg.12)

|                |               |                    |
|----------------|---------------|--------------------|
| ARES Sun       | -Stan R       | W9FQN@amsat.org    |
| Staff Net      | -David D      | KC6YSO@amsat.org   |
| ARES 6m        | -David D      | KC6YSO@amsat.org   |
| Ham Help       | -Mike D       | AB6QT@amsat.org    |
|                | -David D      | KC6YSO@amsat.org   |
| Hiking         | -Ed           | KF6DXX@Juno.com    |
|                | -Glenn KE6ZLY | KE6ZLY@Juno.com    |
| MARA           | -Cathy KE6IU  | W6NWG@amsat.org    |
| Microwave      | -Kerry B      | N6IZW@qualcomm.com |
| Off Road       | -Jerry A      | jwak6pfp@cts.com   |
|                | -DickW KA7AYT | rwilimek@home.com  |
| Sailors        | -Larry D      | W6QCA@amsat.org    |
| Traffic(SDCTN) | -CharlesN6TEP | cmiele@juno.com    |

Names in heavy type are looking for replacements. Appointed members serve until they find a replacement that is approved by the Board.

Questions about club policy or for information can be addressed to **W6NWG@amsat.org** or P. O. Box 73, Vista, CA 92085-0073.

## Work Parties *(trabajo)*

*(General workparties are usually scheduled the first Sunday after the first Wednesday Club meeting -Ed)*

**Next general workparty:** there are no scheduled repeater site work parties until further notice because of unfavorable weather.

(10.26)W9FQNStan went to the repeater site and removed the insulation and plywood torn out of the block building. He also returned a large number of rolls of old used heliax to the club's cargo container.

(11.14)W9FQNStan installed 2" pipe from his QTH to the club's Cargo Container after digging a trench through DG in a workroad.

## 147.075 *(cabinet)*

The new cabinet for the 147.075 repeater was finished up by W9FQNStan. Ventilation mesh was installed along with a half panel. When the 147.075 is installed in the new cabinet by KC6UQHArt, the repeater will be completely inclosed for the first time since being taken to the site.

The 147.075 AC power supply will be temporarily house in a second cabinet until we go completely over to battery operation on all repeaters.

## Work Party *(cargo container)*

We have several projects that need helpers on Sunday, **December 10th**, at 9am to work on the Taco wagon destruction and install a tower on the Cargo Container @ W9FQN QTH.

## 447.000 Patch

Users of the 447.000 repeater patch should be aware that the Navy is back in town full force and sometimes the Navy radar really hits the 70cm repeaters with very strong interference.

The sound is sort of like a buzz saw. Sometimes it is there and sometimes it isn't. Just be aware that when it is on, you could possibly have problem dialing your complete number and/or in you or

## Technical, autopatch, repeaters, etc:

AB6QT@amsat.org (Rptrs); W9FQN@amsat.org (autopatch/work parties)

your party hearing what is being said.

This problem is only slightly evident on the 2m repeaters when autopatches are being run.

## ALARM

If you hear the Morse Code for ALARM, the quickest thing to do is call W9FQN on 147.130 who monitors that frequency most of the time or call him at 760.749.2076 with the notification.

On 11-13 the first callers on ALARM notification were -

WB6DAV - Dave 1st

KE6BGI - Fred 2nd

Normally we have electronic means of checking the status of the repeater site and also one of our neighbors on Palomar Mountain has the site in view.

## AutoDial

The club's autopatch system has been working flawlessly as long as the correct numbers are dialed.

Several of our club members are using their rig's autodialer function to get into the autopatch system. Several appear to be "high speed" dialers which

the computer system is able to decode and redial properly.

The only problem is that you **MUST** dial the first digit by hand (the repeater digit) and make it about 0.5-0.8 seconds long so that the transmitter(s) with the control circuits have time to come "up to speed."

Remember, when transceivers are first turned on, it takes a certain amount of time for all of them to come up to "full power" and this is part of the reason for having a longer first digit in the beginning.

After the first digit, the autodialer can "spit" out the remaining digits.

## New *and not so new*

Q. What is the difference between fast blow fuses and slow blow fuses?

A. The fast blows have only a small thin wire visible through the glass while the slo-blow fuses have the thin wire wound around a small rod or something similar to absorb some of the heat before the flow. Tnx WB6FMT.

*(your editor would like to encourage readers to send in items such as the above to help new hams and to remind some of us older hams of*

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## Patches

If you need a PIN number to use the club's autopatch system, be sure to contact W9FQNStan at club meetings or at [w9fqnl@Juno.com](mailto:w9fqnl@Juno.com) with your request.

While you are at it, you might also ask for a **BOX** number so that you cut down the number of digits by half that you need to dial to call home. You can have up to four **BOX** numbers.

## PL Encode/Decode

The PARC repeaters all need for you to have your rigs PL function turned ON to 107.2 Hz although many times 146.730 does operate without a PL requirement on the input (Encode in your rig). BUT you must have a PL of 107.2 Hz in your rig if you want to use the autopatch on 146.730 since the autopatch was designed to work ONLY with PL present on ALL repeaters.

Now, after we receive your signal on the 146.730 repeater (your transmitter 146.130), we strip off your PL of 107.2 Hz and then turn around and put a new PL of 107.2 Hz back on our output of 146.730 so that if you have a DECODE function and it is set to 107.2 Hz, then our repeater will be the only one that you hear on that frequency.

Other signals on 146.730 will still be there but you will only hear our transmitter when it is transmitting. Neat!

## hummmmmmm->

Several club members have noted a hum on several of our repeaters. There are many places hum could come from. We could have a poorly filtered power supply connected to the repeater.

The second would be that we have the PL encode turned up too high on the repeater.

The third way would be that you are hearing not a 60 or 120 cycle hum but the PL tone of 107.2 Hz.

The 107.2 Hz frequency is considered subaudible but by the time it goes through a repeater, your rig, and speaker,

it is possible that you can hear it.

Most Ht's and mobile transceivers with small speakers really do a good job of NOT reproducing the 107.2 Hz audio signal so that you can hear it.

BUT, if you are at your home rig where it is quieter and you are using a larger speaker, the odds are that you will hear the "subaudible" of 107.2 Hz quite clearly and loudly.

It would appear that the larger the speaker, the greater the chance that you will hear this hum of 107.2 Hz quite clearly.

## Patch hummbuz

When the Navy/Marines are in town and using their RADAR, there is the possibility that you and the person you are talking to will have this radar buzz on the signal that you hear. This is especially true on 70cm frequencies.

## Fidelity

From time to time we all have probably hit the "reverse" button to see if the station we are talking to is near us so we can work simplex or to see if a "jammer" station can be heard.

While listening to the input of the repeater we might note that the signal on the input sounds clearer and/or more like the voice we know (more Hi-Fi)

It needs to be noted that our ham transceivers are restricted in the voice frequencies that can be passed.

Most small ham transceivers pass more high and low frequencies than our Motorola/GE repeaters. There are probably several reasons for this difference in fidelity of the broadcasts.

The Motorola/GE transceivers that are the basis of our repeater (\$10-15/each) were designed to only pass audio frequencies that are needed in communications. They were not designed for Hi-Fidelity! Our repeater transceivers also make extensive use of filters which further help limit the upper and lower frequencies.

In contrast, ham transceivers are small (10-20% of Motorola/GE transceivers) and do not have room for

extensive filtering of the audio/RF frequencies and besides, the manufacturer would like to have his rigs "sound good" so they are not too anxious to restrict the fidelity of their rigs.

Motorola/GE repeaters have filter circuits in their receivers and also in their transmitters shaping the audio for maximum communication readability.

Which all means that the signal coming through the repeater will be rebroadcast with restricted audio bandwidth and will sound "less Hi-Fi" than listening to the other station directly. Remember, repeaters are designed for communication and not for Hi-Fi.

## Typo(s)

There many times is a slip between what our brain is saying and our fingers are doing.

There are 11,535 digits typed into the autopatch program and there are bound to be errors in what was typed for phone numbers.

If you dial a BOX number and get the wrong number, be sure to let W9FQN know about it so that the number being stored in the BOX can be checked for accuracy. So far there have only been two mistakes discovered.

## Cell Radiation

Find out which cell phones give off the most radiation!

Check out CNET Wireless' list of phones with the lowest and highest SAR levels. See how your phone's radiation level compares to others. Click the link to view the full chart, compiled in conjunction with DoMode.com.

<http://one.digital.cnet.com/cgi-bin/flo?y=eBCE0Uhsi0p0EYnC>

## CGC Articles (#417)

**Bob Gonsett** W6VR@amsat.org  
2m In Space:

Amateur radio operations from ISS may begin as early as mid-November on two-meters. The Expedition 1 crew is set to blast off October 31 aboard a Russian Soyuz rocket from the Baikonur Cosmodrome in Kazakhstan.

Once on board ISS, the crew will begin a four-month stay as the first wave of the permanent occupancy of the international complex.

<http://ariss.gsfc.nasa.gov/>

### E-Bay Illegal?:

The FCC says it has reached an agreement with the eBay auction site that's aimed at curtailing the sale of clearly illegal radio equipment. Most of this gear falls into the CB category, including illegal amplifiers.

If you come across clearly illegal items offered for sale on e-Bay, send a complaint to <[fccham@fcc.gov](mailto:fccham@fcc.gov)>.

<http://www.arrl.org/arrlletter/00/1027/>

### Exposure:

I found a good FAQ on RF exposure issues at:

<http://www.mcw.edu/gcrc/cop/cell-phone-health-FAQ/toc.html>

and an authoritative discussion of RF exposure and cancer at:

<http://www.spectrum.ieee.org/publicfeature/aug00/prad.html>

Mark VanderHoek

### Set Clock:

Last week CGC mentioned the "Official Time Clock" site at <<http://www.time.gov/>>. For a neat utility that will query NIST's server and reset your PC's clock automatically, see:

<http://www.boulder.nist.gov/timefreq/service/nts.htm>

Click on the software link at the top right of the page. There are several public domain utilities from which to choose (32 bit, 16 bit, Mac). I have used the 32 bit PC version and found it simple and quick. (Mark VanderHoek)

## Paltalk

Jim Cook

[KD6IVF@hotmail.com](mailto:KD6IVF@hotmail.com)

Paltalk is the total Internet communications solution that combines the best of a instant messaging and Internet telephony. Paltalk offers a wide range of features that allows users to communicate with each other anywhere in the world at any time - all for free. Paltalk offers the following services.

Voice calls

Video conferencing

Group Voice conferencing

Instant messaging

Group text chat

Voice mail

File Transfer

You might want to check it out at

<http://www.PalTalk.Com>

(and from **KF6BGIF**red)

PalTalk enables LONG DISTANCE CALLS to anyone in the world, amazing Voice Chat Rooms, Live Video Calls and lots more - all 100% free.

For a quick easy start, check out:

[http://www.paltalk.com/download/0.x/pal\\_install.exe](http://www.paltalk.com/download/0.x/pal_install.exe)

## Resonance.

Ed Butler **KF6DXX** [ebbutler@juno.com](mailto:ebbutler@juno.com)

Here's a bit of armchair physics I hope some of you will find interesting. A couple of years ago I built a code oscillator using a circuit from an article titled "CW With Your H-T" by Donald DuBon, N6JRL (QST July 1997).

At the time I was working towards 13 wpm for a General Class license and serving as net control for the Tuesday Code practice Net so this was an ideal project to supplement the computer generated code used for the net.

The oscillator is powered with a 9-volt battery and I used a .2-inch speaker so the volume was pretty weak. Trying to solve that problem I recalled an excellent book I'd previously read titled "The Science of Sound" by Thomas D. Rossing.

In a chapter on resonance he explained how open and closed pipes can be tuned to resonate at various frequencies thereby amplifying the sound.

Since CW exams generally use a tone of about 900 Hz I picked that as my working frequency. Using the author's formula:  $F = C / 2L$ , where F is frequency; C the speed of sound (approximately 1085 fps); and L is the length of the tube; I solved for L and got 0.6 feet or 7.2 inches as the resonant length for my speaker tube. There is an "end correction" formula of  $0.61 \times$  radius to be added to the length for a tube with one open end but this can be disregarded as the length isn't that critical. I cut a length from a cardboard mailing tube which was the right diame-

ter to fit snugly over the 2-inch speaker then tapped out a few dits and dahs. Amazing! What had been a feeble tweet, tweet from my little speaker was now a very robust sound that could easily be heard across the room.

As a bit of background some of you may remember the early to mid-60s and the advent of the "muscle car" era when tuned exhaust for dragsters and tuned manifolds for hot rods were all the rage.

Dodge came out with a 413 c.i.d. engine available with two four barrels and tuned intake manifold. I remember seeing a '40 Ford coupe at a local speed shop complete with a 413 engine and a big Holley AFB 4-barrel carburetor overhanging each front fender...pretty impressive!

These were big buck items far beyond my reach but still served to stimulate my curiosity about tuned intake and exhaust tubes and exactly how they worked.

By performing the simple experiment described above, I now better understand that tuning technique or at least the fundamentals of it.

Try this experiment for yourself and it will make the formulas and theory real to you...and you'll amaze your friends and fellow Hams with your wizardry! Have fun and 73s. Ed

## Contests

Harry Hodges

[W6VOO@amsat.org](mailto:W6VOO@amsat.org)

Dec 1 ARRL 160 Meter Contest

Dec 3 QRP Sprint

Dec 9 ARRL 10 Meter Contest

Dec 16 Croatian CW Contest

Dec 30 Canadian Winter Contest

Dec 30 Stew Perry 160 Meter Contest

Jan 6 ARRL RTTY Roundup

Jan 12 JA Int'l DX Contest, 40-160, CW

Jan 13 N. American QSO Party, CW

The number of contests is rather sparse this month. A couple to help you on your Worked All States (WAS) quest. Try some different antenna designs to get you on 160 meters.

Rules are published in QST, CQ, NCJ and Worldradio magazines. 73, Harry

## PARC NETS (04/00)

All 147.075 10-11pm MCW contacts

All 147.130 2130+ pm Facitious Group

Sun. 146.730 8:30am AREmergency Service

Sun. 146.730 10:00am Sailor's Net

Sun. 147.075 8:45pm MARA Net

Mon. 146.730 7:15pm RACES sub Net

Mon. 146.730 9:00pm Microwave Net

Tue. 146.730 8:00pm Traffic Net (SDCTN)

Tue. 146.730 9:00pm Off Roading Net

Thu. 146.730 8:00pm Traffic Net (SDCTN)

Thu. 146.730 9:00pm Ham Help Net

(electronics, computers, antennas, license theory, etc.)

Fri. 146.730 9:00pm Hiker's Net

Sat. 146.730 8:00pm Traffic Net (SDCTN)

Sat. 52.680 8:00pm 6m ARES Net

Sat. 147.130 8:15pm ARES Staff Net

**POSTMASTER:** Send address changes to Scope, P.O.Box 73, Vista, CA 92085-0073 (also on page 1)

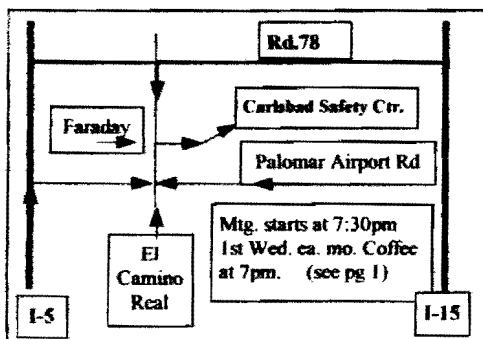
## Time Dated Material

Work Party Sun. Dec. 10th at Cargo/ Taco wagon site. Bring hammer, crowbar, metal cutters & gloves @ 9am. Bring lunch.

Dec.  
2000  
pg.12  
-144-  
1.480

Periodicals  
Postage Pd.  
at Vista CA  
92085-9998

## Back at the Carlsbad Safety !



# cover me!

*Fold, I am old and cold, I am told!*

## PARC Web Page (KE6WOE)

<http://members.home.net/parc/>

## OPEN Repeaters/CLOSED Patches

Palomar Mt. Repeaters (W6NWG)

PARC Trustee of W6NWG: AB6QT

\*52.680- W6NWG, -0.5 MHz

Autopatches(4): 146.730-, \*147.075+

\*147.130+, \*447.000-

PKT: 145.050s (PALMAR/W6NWG-1)

146.700-(Duplex Pkt) PALBBS/EMG use

145.070/146.7- (W6NWG-3/PALBBS)

ATV "OUTPUT": 1241.25 MHz AM

ATV "IN": 915wbfm, 919am,

2441.25wbfm

Intercom: 146.415 PL 79.7 nbfm

Affiliated:

\*224.38- & \*224.94- KK6KD(HARS)

\*447.05- & \*145.26- KK6KD(HARS)

\*146.175+ N6FQ(FalbrkARC) linked

to 448.900 MHz (-) 103.5PL

\*224.90- WD6HFR (220ClubSD);

446.14- WB6FMT(123.0)Vista;

\*=107.2 Hz

## Pg. NEWS WORTHY

01 Club program; election; events; Rebuttal;

02 Last Mtg; Tnx; K6DBJ; Board; S.Jacinto;

03 Officers; TreaS; PresMsg; Ltr 2 PARC;

04 SK; Flower Girl; KF6YUV; Membership; Light

05 FD Results; Another Ham; FD 2000;

06 Programs?; Language Net; FCC Callbook;

Lost Found; K6ISS; ARES, POBox 73;

07 For Sail; Ads;

08 Grab Bags; Editor; Garage Sale;

09 Work parties; 147075; 447; ALARM; Au-

todialer; Fuses;

10 Patches; PL; Humm; Fidelity; Typo; Cell

Radiation CGC Articles;

11 Contests; PalTalk; Resonance;

12 You are looking at it!

(do you always read the fine print?)

## Web Pages

PARC's Home Page - KE6WOE

<http://members.home.net/parc/>

Rod's General Home Page - AC6V

<http://ac6v.com/>

Tom's Hiker's Home Page - KF6PAZ

<http://www.fanciful.org/san-diego-hiker>

## Repeaters in Use

Please schedule special repeater use at least one month ahead of intended use with W9FQN:

## PARC 2000 Calendar

Dec 2000 -

06 Wed. Club Mtg. 7:30pm, Carlsbad Safety Ctr

09 Sat. PARC Testing, Carlsbad Safety Ctr

10 Sun. PARC Work Party Cargo Container

20 Wed. N. Dist ARES Staff, 7pm, 147.130

(more fine print)

## Join the ARRL

**PARC Testing** - tests given each 2nd Saturday at 9:30 am in the Carlsbad Safety center in Carlsbad. Contact Rusty AA6OM at 760-747-5872 or at

[DuneDancer@worldnet.att.net](mailto:DuneDancer@worldnet.att.net)

**Register 5-7 days in advance for tests.**

**Escondido Testing** - examinations on the LAST Saturday @ 9:00am, Chamber of Commerce, 720 N. Broadway, Esc 92025. Contact Harry W6YOO 760-743-4212.